

PHYSICS FORM TWO NECTA 1988.

Solutions from: dadisi.co.tz 

by Yohana Lozaro

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
C	B	D	A	B	C	A	B	C	A	C	D	C	D	D

16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
C	A	D	A	D	A	B	D	B	A	D	C	A	C	C

31	32	33	34	35	36	37	38	39	40	41	42	43	44	45
B	A	E	D	C	D	C	E	A	F	B	C	D	A	E

47. (a) Data given, Force, $F = 100 \text{ N}$

Time, $T = 25 \text{ seconds}$, distance = 0 m , since the wall was not moved

Required, work done

Since work done = force $\times$ distance

$$= 100 \text{ N} \times 0 \text{ m} = 0 \text{ J}$$

Hence there is no work done.

(b) Data given; -

$$\text{Power} = 1 \text{ kW} = 1000 \text{ W}$$

$$\text{Time} = 4 \text{ seconds}$$

From, power = work done/time

Work done = power $\times$ time

$$= 1000 \times 4 = 4000 \text{ J}$$

$$\text{Work done} = 4000 \text{ J.}$$

48. (a) Atmospheric pressure is caused by the presence of gases in the atmosphere.

(b) Given, $h = 76 \text{ cm} = 0.76 \text{ m}$

$$\text{Density} = 13600 \text{ kg/m}^3$$

$$g = 10 \text{ N/m}^2$$

from, pressure = density $\times$ g $\times$ height

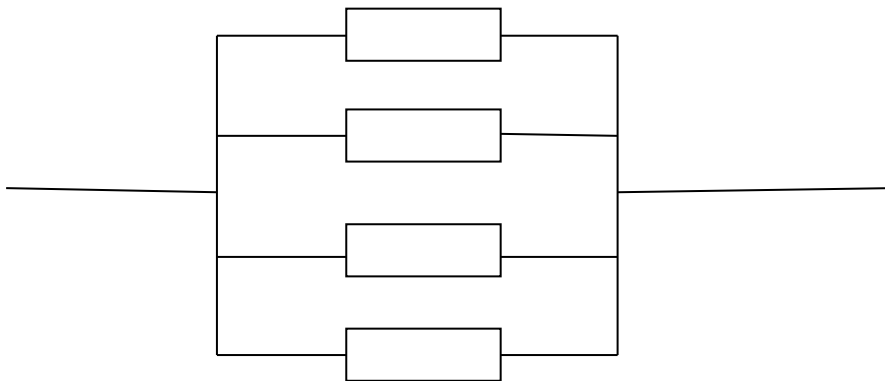
$$= 13600 \times 10 \times 0.76$$

$$= 103360 \text{ N/m}^2$$

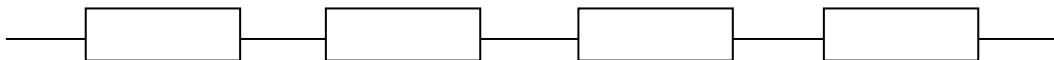
49.(a) Partial solar eclipse occurs when the sun is not completely covered.

(b) Total solar eclipse occurs when the sun is completely covered.

50. resistors in parallel.



(b) Resistors in series.



(c) Battery in series with an ammeter

